JC03 Rec'd PCT/PTO 1 7 MAY 2009

Approved the through 3/31/2007. OMB 0651-0021

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TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
U.S.

ATTORNEY'S DOCKET NUMBER GLH08896551

(If known, see 37 CFR 1. 60 CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/CA03/01747 **NOVEMBER 18, 2003 NOVEMBER 19, 2002** TITLE OF INVENTION HYBRID SPACE-TIME DIVERSITY BEAM FORMING METHOD APPLICANT(S) FOR DO/EO/US Shiquan WU and John LITVA Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 1 Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (SIGNED) 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. 🗸 An Information Disclosure Statement under 37 CFR 1.97 and 1.98., with References 12. ✓ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. L A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. 15. l A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. 18. 🗸 A second copy of the published International Application under 35 U.S.C. 154(d)(4). (WO 2004/047333) A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. 🔽 Other items or information: Check for \$1,090.00; Statement Under 37 C.F.R. 3.73(b); and Return Card

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO-1390 (Rev. 02-2005)

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U.S. APPLICATION NO. (if known see 37 CER INTERNATIONAL APPLICATION NO. PCT/CA2003/001747					ATTORNEY'S DOCKET NUMBER GLH08896551	
The following fees have been submitted					CALCULATIONS	PTO USE ONLY
21. / Basic national fee \$300					\$300.00	1 10 002 01121
22. Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) \$100 All other situations\$200					\$200.00	
23. ✓ Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority					\$400.00	
TOTAL OF 21, 22 and 23 =					\$900.00	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						
Total Sheets	Extra Sheets	Sheets Number of each additional 50 or fraction thereof (round up to a whole number)		RATE		(3)
58-100 =	0/	=		× \$250	\$0	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).					\$0	
CLAIMS	NUMBER FILED		NUMBER EXTRA	RATE	\$	
Total claims		44- 20 =	24	x \$50	\$1,200.00	
Independent claims		1-3=	0	× \$200	\$0	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ \$360	\$0	
TOTAL OF ABOVE CALCULATIONS =					\$2,100.00	
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.						
SUBTOTAL =					\$1,050.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$	
TOTAL NATIONAL FEE =					\$1,050.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					\$ 40.00	
TOTAL FEES ENCLOSED =					\$1,090.00	
					Amount to be refunded:	\$
	-				Amount to be charged:	\$
a. A check in the amount of \$1,090.00 to cover the above fees enclosed.						
b. Please charge my Deposit Account No in the amount of \$ to cover the above fees.						
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-1123.						
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.						
SEND ALL CORRESPONDENCE TO: 25235						
SIGNATURE						
NAME .					JRTON, ESQ.	
35,465 REGISTRATIO					N NUMBER	

FORM PTO-1390 (REV. 02-2005)

0/535261 Attorney Do No. GLH08896551 Client/Matter No. 22718.0002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.

Confirmation No.

Inventors:

Shiguan WU and John LITVA

Filed:

May 17, 2005

TC/A.U.

Examiner:

Docket No. GLH08896551

Customer No. 25235

Title: HYBRID SPACE-TIME

DIVERSITY BEAM FORMING

METHOD

CERTIFICATE OF MAILING BY EXPRESS MAIL

Mail Stop PCT Commissioner for Patents Alexandria, VA 22313-1450

Sir:

The undersigned hereby certifies that the following documents:

- 1. Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371;
- 2. Copy of WO/2004/047333 A2:
- 3. Declarations (2) for Utility Patent Application (signed);
- 4. Recordation Form Cover Sheet and Assignment;
- 5. Power of Attorney to Prosecute Applications Before the USPTO: Statement Under 37 C.F.R. 3.73(b) and Assignment:
- 6. IDS and copies of References;
- 7. Check for \$1,090.00;
- 8. Return Card, and

this Certificate of Mailing relating to the above application, were deposited as "Express Mail," Mailing Label No. EL533458129US with the U.S. Postal Service, addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450. Alexandria, VA 22313-1450, on May 17, 2005

May 17, 2005

Maile

May 17, 2005

Carol W. Burton, Reg. No. 35,465

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